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From: Mark D. Simpson, Reg. No. 32,942

Re: Application No. 09/366,614

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MESSAGE

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In the Claims

1. (Currently amended) A method of powering an electronic circuit with a telephone line, comprising:

conditioning the voltage across the telephone line;

detecting the conditioned voltage; and

applying telephone line power to the electronic circuit based on a characteristic of the detected conditioned voltage, said characteristic comprising the detected voltage exceeding the absolute value of one P-channel threshold voltage plus one N-channel threshold voltage in the electronic circuit.

2. (Previously presented) The method according to claim 1, further comprising the step of applying telephone line power to the electronic circuit when the detected conditioned voltage exceeds a selected voltage level.

3. (Previously presented) The method according to claim 1, wherein the conditioned voltage across the telephone line is detected while the telephone line is in an on-hook state.

4. (Previously presented) The method according to claim 1, wherein the conditioned voltage across the telephone line is detected while limiting the dc current drain from the telephone line to < 1.0 microamps.

5. (Previously presented) The method according to claim 2, wherein the step of applying telephone line power further includes the step of applying telephone line power when the detected conditioned voltage exceeds the voltage necessary for proper operation of a digital logic circuit in the electronic circuit.

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6. (Previously presented) A method of powering an electronic circuit with a telephone line, comprising:

detecting the voltage across the telephone line, and

applying telephone line power to the electronic circuit based on a characteristic of the detected voltage;

wherein the step of applying telephone line power further includes the step of applying telephone line power when the detected voltage exceeds the absolute value of one P-channel threshold voltage plus one N-channel threshold voltage in the electronic circuit.

7. (Original) The method according to claim 1, further comprising the step of applying a reset signal to the electronic circuit.

8. (Original) The method according to claim 7, further comprising the step of turning-off the reset signal to the electronic circuit after the step of applying telephone line power to the electronic circuit.

9. (Original) The method according to claim 1, further comprising the step of entering an active state in the electronic circuit when the telephone line activates, after the step of applying line power to the electronic circuit.

10. (Original) The method according to claim 1, further comprising the step of storing up charge from the telephone line prior to the step of applying telephone line power to the electronic circuit.

11. (Previously presented) The method according to claim 10, further comprising the step of dissipating the stored up charge across the electronic circuit when the detected conditioned voltage exceeds a selected voltage level.

12. (Currently amended) A method of powering a data access arrangement with a telephone line, the data access arrangement having a CMOS electronic circuit, the method comprising:

applying a reset signal to the data access arrangement,

detecting a conditioned voltage across the telephone line while the telephone line is in an on-hook state,

powering the data access arrangement with telephone line power when the detected conditioned voltage exceeds a voltage necessary to properly operate the CMOS electronic device, said detected conditioned voltage exceeding the absolute value of one P-channel threshold voltage plus one N-channel threshold voltage in the electronic circuit, and

turning-off the reset signal to the electronic circuit after powering the data access arrangement.

13. (Currently amended) An apparatus for powering an electronic circuit with telephone line power, the apparatus comprising:

a conditioning circuit situated across the telephone line;

a voltage detector that measures the conditioned voltage across the conditioning circuit and that generates a Reset signal based on a characteristic of the measured conditioned voltage, said characteristic comprising the detected voltage exceeding the absolute value of one P-channel threshold voltage plus one N-channel threshold voltage in the electronic circuit, and

a switch, operably coupled with the voltage detector, for applying telephone line power to the electronic circuit in response to the generated Reset signal.

14. (Previously presented) The apparatus according to claim 13, wherein the voltage detector includes circuitry for generating the Reset signal when the measured conditioned voltage exceeds a selected voltage.

15. (Original) The apparatus according to claim 13, wherein the voltage detector further includes circuitry for limiting the dc current drain from the telephone line through the voltage detector to < 1.0 microamps.

16. (Original) The apparatus according to claim 13, wherein the apparatus further includes a signal path for operably coupling the Reset signal from the voltage detector to the electronic circuit.

17. (Original) The apparatus according to claim 14, wherein the voltage detector further includes circuitry for resetting the electronic circuit until the measured voltage exceeds the voltage necessary to properly operate digital logic in the electronic circuit.

18. (Previously presented) An apparatus for powering an electronic circuit with telephone line power, the apparatus comprising:

a voltage detector that measures the voltage across the telephone line and that generates a Reset signal based on a characteristic of the measured voltage, and

a switch, operably coupled with the voltage detector, for applying telephone line power to the electronic circuit in response to the generated Reset signal,

wherein the voltage detector further includes circuitry for enabling the electronic circuit after the measured voltage exceeds the absolute value of one P-channel threshold voltage plus one N-channel threshold voltage in the electronic circuit.

19. (Original) The apparatus according to claim 13, further comprising a electronic charge storage device operably coupled to the switch, such that the storage device accumulates electronic charge when the telephone line power is disconnected from the electronic circuit and such that the storage device provides electronic charge when the telephone line power is applied to the electronic circuit.

20. (Original) The apparatus according to claim 13, further comprising a high impedance resistor connected in series with the electronic circuit for limiting the voltage applied across the electronic circuit.

21. (Original) The apparatus according to claim 16, further including a time delay element coupled along the signal path between the voltage detector and the electronic circuit, such that the delay element delays application of the Reset signal at the electronic circuit.